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Date	2 July 2004
International Application No	New Application
Attorney Docket No.	890003-2006.WO

Ī.	•	Certificatio	n under 37 CFR 1.10 (if a	pplicable)	• • • • • • • • • • • • • • • • • • • •				
		EV 4	168995876 US				2 July	2004	<u>;</u> .
			Mail mailing number				Date of D	. • • • • • • • • • • • • • • • • • • •	
	Office to	Addressee" service	lication/correspondence attache e under 37 CFR 1:10 on the dat y, VA (22313-1450.	ed hereto is being e indicated abov	g deposited wi	th the United ssed to: Ma	iil Stop PCT, (Commissioner for Paten	ost its,
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	4/	Signature of per	son mailing correspondence		Гу	oed or printe	a name of pers	on mailing corresponden	ce .
TT	\boxtimes	NT X4	ional Application						<u> </u>
II.	<u> </u>	New Internat	попат Аррисации		<u> </u>		——————————————————————————————————————	Earliest priority Da	te
	TITLE	NEURO	NAL DIFFERENTIATION	OF STEM CI	ELLS			(Day/Month/Year)	1 1
	****	, l'izone						2 July 2003	
	· pu	poses of determining	LOSURE INFORMATION: ng whether a license for foreign 1. (Note: check as many boxes	transmittal sho	t in screening uld and could	the accomp be granted a	panying international for other pu	ational application for urposes, the following	
	A. [The invention of	lisclosed was not made in the U	Jnited States.			··: .		
•	в. 🗌	•	or U.S. application relating to the		·				
	c. 🛭	application. (No	orior U.S. application(s) contain ofe: priority to these application m for priority.)	n subject matter, is may or may n	which is relat ot be claimed	ed to the involved for the conform PC	vention disclose T/RO/101 (Req	ed in the attached internat uest) and this listing doe	tional s not
	applica	tion no.	60/484,318		filed on		2 Ju	aly 2003 (02.07.2003)	
									}}
	D. [_	paragraph C ab DOES No which would re	ernational application con ove. The additional subject ma OT ALTER MIGH quire the U.S. application to ha 37 CFR 5.1. See 37 CFR 5.15	itter is found on IT BE CONSID ive been made a	pages a	nd LTER the g	eneral nature o	of the invention in a mani	ner ·
III.		A Response t	o an Invitation from the RO/	US. The follow	ing document(s) is(are) en	closed:		•
	A. [A Request for A	An Extension of Time to File a	Response.					
	в. 🗌	A Power of Att	orney (General or Regular)		· · · · · · · · · · · · · · · · · · ·	J	:		
	с. 🗀	Replacement Pa	ages:					•	
			1.64	. :			Of th	ne figures	· · · ·
		pages	of the request (Po		pages	<u> </u>		e abstract	
		pages	of the claims		pages	1	1 7 7		
	<u> </u>	* 1.5.555 1.5.55			 .				
	D. [Priority Documents	<u> </u>					
		Priority documen		-h4 C DCT	Priority do		<u> </u>	 : - : - : - : - : - : - : - : 	ا ليــ
	E	rees as specifie	ed on attached Fee Calculation	sheet form PC 17	KO/101 anne	· ·	 	·	
IV.		A Request f	or Rectification under PC	T 91	Petition		A Sequer	ice Listing Disket	te
v.		Other (please	specify):			· · · · · · · · · · · · · · · · · · ·			
•			· –			Aı	my Leahy	(
		Applicant		·.		Typed r	name of signe	er ·	
•		Attorney/	Agent (Reg.No.) 47,739	<u>_</u>	\cap	ì	Λ	<i>:</i>	
		Common I	Representative		1-my	Liles	ignature		

	F	or receiving Office use only
PCT	International Application	n No.
REQUEST		
	International Filing Date	e
The undersigned requests that the present international application be processed	Name of receiving Offic	ce and "PCT International Application"
according to the Patent Cooperation Treaty	Applicant's or agent's fil	
Box No. 1 TITLE OF INVENTION	(if desired)(12 character	rs maximum) 890003-2006.WO
NEURONAL DIFFEREN	TIATION OF STE	M CELLS
	son is also inventor.	
Name and address: (Family name followed by given name; for a legal entity, full offic must include postal code and name of country. The country of the address indicated State (that is, country) of residence if no State of residence is indicated below.)		
REGENTS OF THE UNIVERSITY OF MINNE 110 Washington Avenue South	SOTA	Facsimile No.
Minneapolis, MN 55455		Teleprinter No.
US		Applicant's Registration No. with the Office
State (that is, country) of nationality: US	State (that is, country) of	f residence: US
This person is applicant all designated states all designated states of the purposes of:	xcept the United States of	the United States of the states indicated in America only the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHE	R) INVENTOR(S)	
Name and address: (Family name followed by given name; for a legal entity, fu address must include postal code and name of country. The country of the address applicant's State (that is, country) of residence if no State of residence is indicated bel	indicated in this Box is the	This person is:
VERFAILLIE, Catherine M.		applicant only
St. Paul, MN US		applicant and inventor
03		
		inventor only (if this check-box is marked, do not fill in below.)
		wind new, we not you at ectority
		Applicant's registration No. with the Office:
State (that is, country) of nationality:	State (that is, country) of	fresidence:
US	US	
This person is applicant all designated all designated states er for the purposes of: all designated all designated of America	ccept the United States	the United States the states indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated on a	continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIVE; O	R ADDRESS FOR COR	RESPONDENCE
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent	common representative
Name and address: (Family name followed by given name, for a legal entity, full office The address must include postal code and name of country.)	ial designation.	Telephone No. (212) 588-0800

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

745 Fifth Avenue

United States

New York, New York 10151

LAWRENCE, William F.; LEAHY, Amy Frommer Lawrence & Haug LLP

See Notes to the request form

(212) 588-0500

Facsimile No.

Teleprinter No.

Agent's registration No. with the Office

Continuation of Box No. III FURTHER AP	PLICANT(S) AND/OR	(FURTHER) INVENTO	DR(S)
If none of the following sub-boxes is used, this s			
Name and address: (Family name followed by giv The address must include postal code and name of Box is the applicant's State (that is, country) of resid	country. The country of the	e address indicated in this	This person is:
JIANG, Yuehua	ence ij no state oj residenc	e is indicated below.)	applicant only
St. Paul, MN			applicant and inventor
US			inventor only (if this check-box is marked, do not fill in below.)
			Agent's registration No. with the Office
State (that is, country) of nationality: US	1/22	State (that is, country) o	of residence:
This person is applicant all designated for the purposes of: states	all designated states e	xcept the United States	the United States the states indicated in the Supplemental Box
Name and address: (Family name followed by give			This person is:
The address must include postal code and name of a Box is the applicant's State (that is, country) of residuents.	country. The country of the ence if no State of residence	e address indicated in this e is indicated below.)	applicant only
			applicant and inventor
en de la companya de La companya de la co			inventor only (if this check-box is marked, do not fill in below.)
			marked, do not jui in below.j
			Agent's registration No. with the Office
State (that is, country) of nationality:		State (that is, country) o	f residence:
· · · · · · · · · · · · · · · · · · ·			
This person is applicant all designated for the purposes of: states	all designated states en of America	ccept the United States	the United States the states indicated in of America only the Supplemental Box
Name and address: (Family name followed by give			This person is:
The address must include postal code and name of c Box is the applicant's State (that is, country) of reside			applicant only
			applicant and inventor
			inventor only (if this check-box is marked, do not fill in below.)
			Agent's registration No. with the Office
State (that is, country) of nationality:		State (that is, country) o	f residence:
This person is applicant all designated for the purposes of: states	all designated states ex of America	ccept the United States	the United States the states indicated in the Supplemental Box
Name and address: (Family name followed by give			This person is:
The address must include postal code and name of c Box is the applicant's State (that is, country) of reside			applicant only
			applicant and inventor
			inventor only (if this check-box is
			marked, do not fill in below.)
•			Agent's registration No. with the Office
State (that is, country) of nationality:		State (that is assument) of	f residence:
		State (that is, country) of	
This person is applicant all designated for the purposes of: states	all designated states ex		the United States the states indicated in
	of America	cept the United States	the United States the states indicated in

Box No. V DESIG	GNATIONS			
The filing of this request con for the grant of every kind of	stitutes under Rule 4.9(a), the	designation of all Contracting S applicable, for the grant of both	States bound by the PCT on the	e international filing date,
However.	protection available and, where	e applicable, for the grant of both	regional and national patents.	
DE Germany is not des	ignated for any kind of nationa	al protection		
	is not designated for any kind of			
	is not designated for any kind			
the national law, of an ear	ly de usea to exclude (irrevo lier national application from	cably) the designations concern which priority is claimed. Se	ned in order o avoid the co	easing of the effect, under
such national law provisions	in these and certain other State	s).	ee the Notes to Box No, V.	as to the consequences of
	RITY CLAIM			
The priority of the following	earlier application(s) is hereby	claimed:		
Filing date of earlier application	Number		Where earlier application is:	
(day/month/year)	of earlier applications	national application: country or member of WTO	regional application: * regional Office	international application: receiving Office
item (1) 2 July 2003	60/494 210			
(02.07.2003)	60/484,318	US	•	
. (0)				
item (2)				
item (3)				
nem (5)				
☐ Further priority claims a	re indicated in the Supplementa	l Box		1
		. 20%.	•	
✓ all items	tion is an ARIPO application	item (3) iten	power to the Paris Communication	other, see Supplemental Box tion for the Protection of (b)(ii)):
Box No. VII INTER	NATIONAL SEARCHING A	UTHORITY		
Choice of International Sea	rching Authority (ISA) (If the	wo or more International Sec	urching Authorities are con	npetent to carry out the
international search, indicate i	he Authority chosen; the two-le	tter code may be used).		
ISA/ US			•	
Request to use results of e International Searching Author	arlier search; reference to	that search (If an earlier sea	rch has been carried out b	by or requested from the
Date (day/month/year)	Numb	er	. Country (or .	manian at Office)
			Country (or)	regional Office)
Box No. VIII DECLA	RATIONS			
DOLING VIII DECLA	RATIONS	<u> </u>		<u> </u>
The following declarations are (Check Boxes below and indicate in	contained in Boxes Nos. VIII (i) to (v) (mark the applicable type of Declaration)		Number of declarations
Box No. VIII (i)	Declaration as to the identity	•		or decidated one
Box No. VIII (ii)	Declaration as to the applican	it's entitlement, as at the internati	ional filing	
same dispersion of the	date, to apply for and be gran	ted a patent		1
Box No. VIII (iii)	Declaration as to the applican date, to claim the priority of t	it's entitlement, as at the internati he earlier application	onal filing	
Box No. VIII (vi)		only for the purposes of the design	nation of the	
☐ Box No. VIII (v)		cial disclosures or exceptions to 1	ack of novelty :	
rm PCT/RO/101 (third sheet) (Janu			•	
(mmg succe) (1 and	m, 2007)		See	Notes to the request form

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII(i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.				
Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:	patent (Rules 4.17(ii) and			
in relation to this international application,				
REGENTS OF THE UNIVERSITY OF MINNESOTA is entitled to apply for and be grante by virtue of the following:	d a patent			
an assignment from:				
(1) VERFAILLIE, Catherine M., of St. Paul, MN, US, and (2) JIANG, Yuehua, of St Paul MN, US				
to REGENTS OF THE UNIVERSITY OF MINNESOTA., dated 23 October 2003 (23.10.20 and 22 October 2003 (22.10.2003), respectively.				
This declaration is made for the purposes of all designations, except for the designation of the	ne United States of America.			

Form PCT/RO/101 (declaration sheet (ii)) (January 2004)

See Notes to the request form

The declaration must conform to the standardized wording provided for in Section 213; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iii). If this Box is not used, this sheet should not be included in the request.				
Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)):				
REGENTS OF THE UNIVERSITY OF MINNESOTA is entitled to claim priority of earlier application No. 60/484,318 by virtue of the following:				
an assignment from:				
(1) VERFAILLIE, Catherine M., of St. Paul, MN, US, and				
(2) JIANG, Yuehua, of St Paul MN, US				
to REGENTS OF THE UNIVERSITY OF MINNESOTA., dated 23 October 2003 (23.10.2003), and 22 October 2003 (22.10.2003), respectively.				
This declaration is made for the purposes of all designations, except for the designation of the United States of America.				
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This declaration is continued on the following sheet, "Continuation of Box No. VIII (iii)".				

Box No. IX CHECK LIST; LANGUAGE	OF FILING	
This international application contains: (a) the following number of sheets in paper form:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items
request (including	1.	: 1.
declaration sheets) : 6	2. original separate power of attorney	· :
description (excluding sequence listing and/or	3. original general power of attorney	:
tables related thereto) : 37	 copy of general power of attorney; reference number, if any: 	
claims : 2	5. statement of explaining lack of signature	:
abstract : 1	6. priority document(s) identified in Box No. VI as item(s):	
drawings : 5	7. Translation of international application into	
Sub-Total number of sheets: sequence listing	(language):	;
tables related thereto :	separate indications concerning deposited microorganism or other biological material	:
(for both, actual number of sheets if filed in paper form, whether or not also filed in	9. sequence listing in computer readable form (indicate also type number of carriers (diskette, CD-ROM, CD-R or other))	and · · · · · · · · · · · · · · · · · · ·
computer readable form; see (c) below)	(i) copy submitted for the purposes of international search Rule 13/er only (and not as part of the international ap	
Total number of sheets : 51	 (ii) (only where check-box (b()i) or (c)(i) is marked in left additional copies including, where applicable, the copy purposes of international search under Rule 13ter 	
(b) only in computer readable form (Section 801(a)(i))	(iii) together with relevant statement as to the identity of th	
 (i) ☐ sequence listings (ii) ☐ tables related thereto 	copies with the sequence listing part mentioned in left 10. tables in computer readable form related to sequence	
c) also in computer readable form (Section 801(a)(ii))	(indicate type and number of carriers) (i) ☐ copy submitted for the purposes of international search	. ,
(i) ☐ sequence listings (ii) ☐ tables related thereto	Section 802(0-quarter) only (and not as part of the inte application)	
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are	 (ii) (only where check-box (b(ii) or (c)(ii) is marked in left additional copies including, where applicable, the copy purposes of international search under Section 802(b-q 	for the
Contained the sequence listings tables related thereto	(iii) together with relevant statement as to the identity of th	
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column 11. Other (specify):		
<u> </u>		
Figure of the drawings which should accompany the abstract: 3C	international application: English	
Box No. X SIGNATURE OF APPLICA Next to each signature, indicate the name of the person sign	NT, AGENT OR COMMON REPRESENTATIVE ng and the capacity in which the person signed (if such capacity is not obvious)	ous from reading the request).
Amy Leaker	uny Leahy	,
	. •	·
	For receiving Office use only	<u>`. :</u>
Date of actual receipt of the purported	ror receiving Office use only	2. Drawings:
international application:		
 Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application: 		received:
Date of timely receipt of the required corrections under PCT Article 11 (2):		not received:
International Searching Authority (if two or more are competent): ISA/	6. Transmittal of search copy delayed until search fee is paid.	
th two or more are competenty: 1524	For International Bureau use only	
Date of receipt of the record copy		
by the International Bureau:	- · · · · · · · · · · · · · · · · · · ·	
Form PCT/RO/101 (last sheet) (January 2004)	•	See Notes to the request form.

This sheet is repart of and does not count as a sheet of the internet al application.

	For receiving office use only
PCT	
FEE CALCULATION	·
Annex to the Request	International application no.
Applicant's or agent's	
file reference 890003-2006.WO	
	Date stamp of the receiving Office
Applicant REGENTS OF THE UNIVERSITY OF MIN	NESOTA
CALCULATION OF PRESCRIBED FEES	
1. TRANSMITTAL FEE	
2. SEARCH FEE	
International search to be carried out by <u>US</u> (If two or more International Searching Authorities are competent to carry out the internation search, indicate the name of the Authority which is chosen to carry out the international search	al h.)
3. INTERNATIONAL FILING FEE	
Basic Fee	
Where items (b) and/or (c) of Box No. IX apply, enter Sub-Total number of sl Where items (b) and (c) of Box No. IX do not apply, enter Total number of sh	neets <u>51</u> eets
i1 first 30 sheets	4.00 ii
12 21 x \$12.00 = 252.00	
number of sheets in	i2
excess of 30 fee per sheet	
additional component (only if sequence listings and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a(ii)):	
400 x = 1	i3
fee per sheet	
Add amounts entered at i1, i2 and i3 enter total at I	386.00 I
(Applicants from certain States are entitled to a reduction of 75% of the international fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the sum of the amounts entered at B and D.)	
4. FEE FOR PRIORITY DOCUMENT (if applicable)	\$20.00 P
(y upparable)	\$20.00
5. TOTAL FEES PAYABLE	
Add amounts entered at T, S, I and P, and enter total in the TOTAL box	TOTAL
MODE OF PAYMENT	·
Authorization to charge postal money order cash deposit account (see below)	coupons
cheque bank draft revenu	e stamps other (specify):
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACC (This mode of payment may not be available at all receiving Offices)	COUNT Receiving Office: RO/US
The state of the s	Deposit Account No.: 50-0320
Authorization to charge the total fees indicated above.	Date: 2 July 2004
(This check-box may be marked only if the conditions for deposit account	ts of the
receiving Office so permit) Authorization to charge any deficiency or cre overpayment in the total fees indicated above.	
Authorization to charge the fee for priority document.	Signature: / my Llaky

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